	Application No.	Applicant(s)
Notice of Allowability		, apprount(o)
	10/045,522 Examiner	THENGVALL ET AL.
- Modeo of Amonability	Examiner	Art Unit
	Romain Jeanty	3623
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	is (OR REMAINS) CLOSED in this ag) or other appropriate communication RIGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>9/22/06</u> .		
2. The allowed claim(s) is/are <u>1-3,6-8 and 10</u> .		
 Acknowledgment is made of a claim for foreign priority u All b)	e been received. e been received in Application No ocuments have been received in this	national stage application from the
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.	complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 	nitted. Note the attached EXAMINEF es reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ation is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") musical including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	son's Patent Drawing Review(PTO 's Amendment / Comment or in the	Office action of
each sheet. Replacement sheet(s) should be labeled as such in t	the header according to 37 CFR 1.121	(d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal I	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/25/02; 8/26/02	7. X Examiner's Amend	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
	9. Other	
		Romain Jeanty Primary Examiner Art Unit: 3623

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Allowable Subject Matter

1. Claims 1-3, 6-8, and 10 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

The closest prior art is Sato et al (U.S. Patent No. 6,651,0460. Sato et al discloses an optimizing method for optimization, the total number of crew required for flight services and a crew pairing model calculation unit for calculating a fitness of a solution. However Sato et al fail to teach extracting said first memory objects and said second memory objects to form an open pairing model, formulating said open pairing model into an integer program data structure to simplify said open pairing model for solution, and generating said multiple solutions based upon said integer program data structure to cure said n open pairings, wherein said integer program data structure is provided by an integer program represented by the formula recited in claim 1 above.

Claims 2-3, 6-8, and 10 depend from independent claim 1; therefore claims 2-3, 6-8, and 10 are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Craig (WO00/067179) discloses a system of creating staff schedules.
- b. Yu et al (EP1072991A2) disclose an automated real-time crew optimization engine for repairing crew problems.
- c. Castonguay et al (WO9207318) discloses a method for scheduling, planning and managing personnel.
- d. Rushmeier (Recent Advances in Exact Optimization of Airline Scheduling

 Problems) discloses the concept of using mixed-integer programming for airline scheduling.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Romain Jeanty whose telephone number is (571) 272-6732. The examiner can normally be reached on Mon-Thurs 7:30 a.m. to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq R. Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 27, 2006

Romain Jeanty Primary Examiner

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